

Appln. Serial No. 10/645,489
Amendment Dated August 22, 2007
Reply to Office Action Mailed May 22, 2007

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AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions, and listings, of claims in the application:

- 1 1. (Original) A multi-staged services policer comprising:
2 a downstream services policer; and
3 an upstream services policer adapted to:
4 receive a traffic unit;
5 analyze said traffic unit;
6 based on said analysis, transmit said traffic unit to said downstream services
7 policer; and
8 receive feedback from said downstream services policer.
- 1 2. (Original) The multi-staged services policer of claim 1 wherein said feedback from said
2 downstream services policer is an indication of available bandwidth.
- 1 3. (Cancelled)
- 1 4. (Original) The multi-staged services policer of claim 1 wherein at least one of said
2 services policers polices at an application layer granularity.
- 1 5. (Original) The multi-staged services policer of claim 1 wherein at least one of said
2 services policers polices at a data link layer granularity.
- 1 6. (Cancelled)
- 1 7. (Original) The multi-staged services policer of claim 1 wherein said traffic unit is a
2 Frame Relay frame.
- 1 8. (Original) The multi-staged services policer of claim 1 wherein said traffic unit is a
2 Internet protocol packet.

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1 9. (Original) The multi-staged services policer of claim 1 where said upstream services
2 policer is a first upstream services policer and said multi-staged services policer further
3 comprises a second upstream services policer adapted to transmit traffic units received at said
4 second upstream services policer to said downstream services policer based on an analysis
5 specific to said second upstream services policer and wherein said downstream services policer
6 affords a higher priority to traffic units received from said second upstream services policer than
7 to traffic units received from said first upstream services policer.

1 10. (Currently Amended) A method of handling traffic units comprising:
2 receiving, by an upstream services policer, a first traffic unit;
3 analyzing, by the upstream services policer, said first traffic unit according to a first
4 policy;
5 based on said analysis, transmitting, by the upstream services policer, said first traffic
6 unit to a downstream services policer; [[and]]
7 processing, by the downstream services policer, the first traffic unit according to a second
8 policy; and
9 receiving, by the upstream services policer, feedback from said downstream services
10 policer to cause the upstream services policer to modify analysis by the upstream services policer
11 of further received traffic units.

1 11. (Currently Amended) The method of claim 10 wherein said traffic unit is a first traffic
2 unit and said method further comprises:
3 receiving, by the upstream services policer, a second traffic unit;
4 analyzing, by the upstream services policer, said second traffic unit differently from the
5 analyzing of the first traffic unit in light of said feedback; and
6 based on said analysis of said second traffic unit, transmitting said second traffic unit to
7 said downstream services policer.

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1 12. (Currently Amended) A computer readable storage medium containing computer-
2 executable instructions which, when ~~performed~~ executed by a processor in an upstream services
3 policer that is upstream of a downstream services policer, cause the processor to:
4 receive a first traffic unit;
5 analyze said first traffic unit;
6 based on said analysis, transmit said first traffic unit to said downstream services policer;
7 [[and]]
8 receive feedback from said downstream services policer;
9 receive a second traffic unit;
10 in response to the received feedback, analyze said second traffic unit differently from
11 analysis of said first traffic unit; and
12 based on said analysis of said second traffic unit, transmit said second traffic unit to said
13 downstream services policer.

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1 13. (Currently Amended) A multi-staged services policer comprising:
2 a downstream services policer; and
3 a first upstream services policer adapted to:
4 receive a first traffic unit;
5 analyze said first traffic unit according to a first policy for a first class of service;
6 based on said analysis, transmit said first traffic unit to said downstream services
7 policer; and
8 [[an]] a second upstream services policer adapted to:
9 receive a second traffic unit;
10 analyze said second traffic unit according to a second policy for a second class of
11 service;
12 based on said analysis of said second traffic unit, amend said second traffic unit
13 resulting in an amended traffic unit including an amendment, where said amendment may be
14 interpreted by said downstream services policer, wherein said amendment indicates said second
15 traffic unit as being a traffic unit for the first class of service rather than the second class of
16 service; and
17 transmit said amended traffic unit to said downstream services policer.

1 14. (Currently Amended) A multi-staged services policer comprising:
2 a first services policer to police traffic units according to a first policy for a first class of
3 service;
4 a second services policer to police traffic units according to a second policy for a second
5 class of service; and
6 a third services policer receiving output from each of said first services policer and said
7 second services policer, wherein the third services policer affords a higher priority to traffic units
8 received from the first services policer than to traffic units received from the second services
9 policer.

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1 15. (New) The multi-staged services policer of claim 1, wherein the upstream services
2 policer is adapted to use the feedback from the downstream services policer to cause the
3 upstream services policer to modify analysis of further traffic units received by the upstream
4 services policer.

1 16. (New) The multi-staged services policer of claim 15, wherein the upstream services
2 policer is a first upstream services policer that analyzes the first traffic unit according to a first
3 policy, the multi-staged services policer further comprising:
4 a second upstream services policer to receive second traffic units, analyze the second
5 traffic units according to a second policy, and based on the analysis according to the second
6 policy, transmit the second traffic units to the downstream services policer,
7 wherein the feedback received by the first upstream services policer from the downstream
8 services policer is in response to receipt of the second traffic units from the second upstream
9 services policer.

1 17. (New) The multi-staged services policer of claim 1, wherein the downstream services
2 policer is a first downstream services policer, and the upstream services policer is a second
3 upstream services policer to analyze the traffic unit according to a first policy, and wherein the
4 multi-staged services policer further comprises:
5 a second upstream services policer to receive second traffic units, analyze the second
6 traffic units according to a second policy, and based on the analysis of the second traffic units,
7 transmit the second traffic units to the first downstream services policer;
8 a second downstream services policer; and
9 a third upstream services policer to receive third traffic units, analyze the third traffic
10 units according to a third policy, and based on the analysis of the third traffic units, transmit the
11 third traffic units to the second downstream services policer,
12 wherein the first, second, and third policies are for different types of traffic units.

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1 18. (New) The method of claim 10, wherein the upstream services policer is a first upstream
2 services policer, the method further comprising:
3 receiving a second traffic unit by a second upstream services policer;
4 analyzing, by the second upstream services policer, said second traffic unit according to a
5 third policy;
6 based on said analysis of said second traffic unit, transmitting, by the second upstream
7 services policer, said second traffic unit to the downstream services policer,
8 wherein said downstream services policer affords a higher priority to traffic units
9 received from said second upstream services policer than to traffic units received from said first
10 upstream services policer.

1 19. (New) The multi-staged services policer of claim 13, wherein the downstream services
2 policer is adapted to send feedback information to the first upstream services policer in response
3 to the amended traffic unit, wherein the first upstream services policer responds to the feedback
4 information by modifying analysis of further traffic units received by the first upstream services
5 policer.

1 20. (New) The multi-staged services policer of claim 13, wherein the downstream services
2 policer affords a higher priority to traffic units received from the second upstream services
3 policer than to traffic units received from the first upstream services policer.

1 21. (New) The multi-staged services policer of claim 14, wherein the third services policer
2 sends feedback information to the second services policer in response to traffic units received
3 from the first services policer, wherein the second services policer modifies analysis of further
4 traffic units received by the second services policer in response to the feedback information.